

(FILE 'HOME' ENTERED AT 14:14:58 ON 18 DEC 2000)

FILE 'USPATFULL' ENTERED AT 14:15:22 ON 18 DEC 2000  
E US5510982/RPN

L1 6 S E3  
L2 503 S (701/51 OR 701/55 OR 701/56 OR 701/58)/NCLM,NCLS  
L3 294 S (477/115 OR 477/120 OR 477/900)/NCLM,NCLS  
L4 63 S 706/905/NCLM,NCLS  
L5 779 S L2 OR L3 OR L4  
L6 9985 S AUTOMATIC TRANSMISSION  
L7 6513 S TORQUE CONVERTER  
L8 7708 S (ESTIMAT? OR CALCULAT? OR DETERMIN?) (3A) TORQUE  
L9 168 S L6(P)L7(P)L8  
L10 5026 S TURBINE (3A) SPEED  
L11 19 S L10(P)L9  
L12 31209 S ENGINE (2A) SPEED  
L13 107 S RATIO (10A) (L10(5A)L12)  
L14 38 S L13 AND L9  
L15 30 S L14 NOT L11

QUESTEL'

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Estimated total session cost : 0.77 USD

Selected file: PLUSPAT

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Content and searching information: see INFO PLUSPAT  
Last database update : 2000/12/14 (YYYY/MM/DD)

Search statement 1

?us5510982/pat

\*\* SS 1: Results 1

Search statement 2

?prt legalall full

1/1 PLUSPAT - (C) QUESTEL-ORBIT  
PN - US5510982 A 19960423 [US5510982]  
STG - (A) United States patent  
TI - (A) Automatic automobile transmission with variable shift pattern  
controlled in response to estimated running load  
PA - (A) HITACHI LTD (JP)  
IN - (A) OHNISHI HIROSHI (JP); KITANO KOUJI (JP); KAYANO MITSUO (JP);  
KURIHARA NOBUO (JP)  
IC - (A) B60K-017/06  
AP - US98519992 19921203 [1992US-0985199]  
PR - JP31920591 19911203 [1991JP-0319205]  
EC - F16H-059/52  
- F16H-061/02E1M  
ICO - R16H-059/14  
- R16H-059/38T  
- R16H-059/46T  
- R16H-059/48  
- R16H-061/00M2  
PCL - ORIGINAL (O) : 701055000; CROSS-REFERENCE (X) : 477120000 477900000  
706905000  
DT - Corresponding document

1/1 LGST - (C) LEGSTAT  
PN - US 5510982 [US5510982]  
AP - US 985199/92 19921203 [1992US-0985199]  
DT - US-P  
ACT - 19921203 US/AE-A  
APPLICATION DATA (PATENT)  
{US 985199/92 19921203 [1992US-0985199]}  
- 19930222 US/AS02

ASSIGNMENT OF ASSIGNOR'S INTEREST  
HITACHI, LTD. 6, KANDA SURUGADAI 4-CHOME CHIYODA-KU, TOKYO JAPAN \*  
ONISHI, HIROSHI : 19930202 KITANO, KOUJI : 19930202; KAWASAKI, MITSUO :  
19930202; KURIHARA, MOBUO : 19930202  
- 19960423 US/A  
PATENT

- 19981006 US/RF  
REISSUE APPLICATION FILED  
980423
- 20000912 US/RF  
REISSUE APPLICATION FILED  
20000204

UP - 2000-40

1/1 CRXX - (C) CLAIMS/RRX  
AN - 2711773  
PN - 5,510,982 A 19960423 [US5510982]  
PT - E (Electrical)  
PA - Hitachi Ltd JP  
ACT - 19980423 REISSUE REQUESTED  
Issue Date of O.G.: 19981006  
Reissue Request Number: 09/064765  
Examination Group responsible for Reissue process: 2304  
- 20000204 REISSUE REQUESTED  
Issue Date of O.G.: 20000912  
Reissue Request Number: 09/498856  
Examination Group responsible for Reissue process: 2786

UP - 1999-00  
UACT- 2000-09-12

1/2 PAST - (C) PAST  
AN - 200037-001295  
PN - 5510982 A [US5510982]  
DT - A (UTILITY)  
OG - 2000-09-12  
CO - REA  
ACT - REISSUE APPLICATION FILED  
SH - REISSUE APPLICATION FILED

Y

2/2 PAST - (C) PAST  
AN - 199840-001093  
PN - 5510982 A [US5510982]  
DT - A (UTILITY)  
OG - 1998-10-06  
CO - REA  
ACT - REISSUE APPLICATION FILED  
SH - REISSUE APPLICATION FILED

\*\*\*? t 1/39;log\*\*\*  
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\*\*\* 1/39/1\*\*\*  
\*\*\*DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat\*\*\*  
\*\*\* (c) 2000 EPO. All rts. reserv.\*\*\*  
\*\*\*\*\*  
\*\*\*11654856\*\*\*  
\*\*\*Basic Patent (No,Kind,Date): DE 4240762 A1 19930609 <No. of Patents: 007>\*\*\*  
\*\*\*Patent Family:\*\*\*  
\*\*\* Patent No Kind Date Applic No Kind Date\*\*\*  
\*\*\* DE 4240762 A1 19930609 DE 4240762 A 19921203 (BASIC)\*\*\*  
\*\*\* DE 4328893 A1 19940310 DE 4328893 A 19930827\*\*\*  
\*\*\* JP 6074320 A2 19940315 JP 92228878 A 19920827\*\*\*  
\*\*\* JP 6147304 A2 19940527 JP 92324514 A 19921203\*\*\*  
\*\*\* JP 11325227 A2 19991126 JP 9937286 A 19990216\*\*\*  
\*\*\* US 5510982 A 19960423 US 985199 A 19921203\*\*\*

\*\*\* US 5925087 A 19990720 US 112373 A 19930827\*\*\*  
\*\*\* Priority Data (No,Kind,Date) \*\*\*  
\*\*\* JP 91319205 A 19911203\*\*\*  
\*\*\* JP 92228878 A 19920827\*\*\*  
\*\*\* JP 92246719 A 19920916\*\*\*  
\*\*\* JP 92324514 A 19921203\*\*\*  
\*\*\* JP 9937286 A 19990216\*\*\*  
\*\*\*\*\*  
\*\*\* PATENT FAMILY:\*\*\*  
\*\*\* GERMANY (DE)\*\*\*  
\*\*\* Patent (No,Kind,Date): DE 4240762 A1 19930609\*\*\*  
\*\*\* EINRICHTUNG ZUR STEUERUNG VON AUTOMATIKGETRIEBEN FUER KRAFTFAHRZEUGE\*\*\*  
\*\*\* (German)\*\*\*  
\*\*\* Patent Assignee: HITACHI LTD (JP)\*\*\*  
\*\*\* Author (Inventor): ONISHI HIROSHI (JP); KITANO KOJI (JP); KAYANO\*\*\*  
\*\*\* MITSUO (JP); KURIHARA NOBUO (JP)\*\*\*  
\*\*\* Priority (No,Kind,Date): JP 91319205 A 19911203\*\*\*  
\*\*\* Aplic (No,Kind,Date): DE 4240762 A 19921203\*\*\*  
\*\*\* IPC: \* F16H-059/52; F16H-059/66; F16H-059/24; B60K-041/06\*\*\*  
\*\*\* Derwent WPI Acc No: ; G 93-189640\*\*\*  
\*\*\* Language of Document: German\*\*\*  
\*\*\* Patent (No,Kind,Date): DE 4328893 A1 19940310\*\*\*  
\*\*\* VERFAHREN UND SYSTEM ZUR GEFAELLEABHAENGIGEN STEUERUNG VON FAHRZEUGEN\*\*\*  
\*\*\* UND VERFAHREN UND EINRICHTUNG ZUR SCHAETZUNG DES GEFAELLES (German)\*\*\*  
\*\*\* Patent Assignee: HITACHI LTD (JP)\*\*\*  
\*\*\* Author (Inventor): OHNISHI HIROSHI (JP); KATAYAMA HIROSHI (JP); \*\*\*  
\*\*\* KAYANO MITSUO (JP); ISHII JUNICHI (JP); MINOWA TOSHIMICHI (JP); \*\*\*  
\*\*\* HORIUCHI MICHIMASA (JP)\*\*\*  
\*\*\* Priority (No,Kind,Date): JP 92228878 A 19920827; JP 92246719 A\*\*\*  
\*\*\* 19920916\*\*\*  
\*\*\* Aplic (No,Kind,Date): DE 4328893 A 19930827\*\*\*  
\*\*\* IPC: \* F16H-059/02; F16H-059/24; F16H-059/36; F16H-059/48; F16H-059/66\*\*\*  
\*\*\* ; F16H-059/54; B60T-007/12; G01C-009/08\*\*\*  
\*\*\* Derwent WPI Acc No: ; G 94-084717\*\*\*  
\*\*\* Language of Document: German\*\*\*  
\*\*\*\*\*  
\*\*\* GERMANY (DE)\*\*\*  
\*\*\* Legal Status (No,Type,Date,Code,Text):\*\*\*  
\*\*\* DE 4240762 P 19911203 DE AA PRIORITY (PATENT\*\*\*  
\*\*\* APPLICATION) (PRIORITAET (PATENTANMELDUNG))\*\*\*  
\*\*\*\*\*  
\*\*\* JP 91319205 A 19911203\*\*\*  
\*\*\* DE 4240762 P 19921203 DE AE DOMESTIC APPLICATION (PATENT\*\*\*  
\*\*\* APPLICATION) (INLANDSANMELDUNG\*\*\*  
\*\*\* (PATENTANMELDUNG))\*\*\*  
\*\*\* DE 4240762 A 19921203\*\*\*  
\*\*\* DE 4240762 P 19930609 DE A1 LAYING OPEN FOR PUBLIC\*\*\*  
\*\*\* INSPECTION (OFFENLEGUNG)\*\*\*  
\*\*\* DE 4240762 P 19930609 DE OP8 REQUEST FOR EXAMINATION AS\*\*\*  
\*\*\* TO PARAGRAPH 44 PATENT LAW (PRUEFUNGSANTRAG\*\*\*  
\*\*\* GEM. PAR. 44 PATG. IST GESTELLT)\*\*\*  
\*\*\* DE 4328893 P 19920827 DE AA PRIORITY (PATENT\*\*\*  
\*\*\* APPLICATION) (PRIORITAET (PATENTANMELDUNG))\*\*\*  
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\*\*\* JP 92228878 A 19920827\*\*\*  
\*\*\* DE 4328893 P 19920916 DE AA PRIORITY (PATENT\*\*\*  
\*\*\* APPLICATION) (PRIORITAET (PATENTANMELDUNG))\*\*\*  
\*\*\*\*\*  
\*\*\* JP 92246719 A 19920916\*\*\*  
\*\*\* DE 4328893 P 19930827 DE AE DOMESTIC APPLICATION (PATENT\*\*\*  
\*\*\* APPLICATION) (INLANDSANMELDUNG\*\*\*  
\*\*\* (PATENTANMELDUNG))\*\*\*  
\*\*\* DE 4328893 A 19930827\*\*\*  
\*\*\* DE 4328893 P 19940310 DE A1 LAYING OPEN FOR PUBLIC\*\*\*  
\*\*\* INSPECTION (OFFENLEGUNG)\*\*\*  
\*\*\* DE 4328893 P 19940310 DE OP8 REQUEST FOR EXAMINATION AS\*\*\*  
\*\*\* TO PARAGRAPH 44 PATENT LAW (PRUEFUNGSANTRAG\*\*\*  
\*\*\* GEM. PAR. 44 PATG. IST GESTELLT)\*\*\*  
\*\*\*\*\*  
\*\*\* JAPAN (JP)\*\*\*  
\*\*\* Patent (No,Kind,Date): JP 6074320 A2 19940315\*\*\*  
\*\*\* VEHICLE INCLINATION DETECTING DEVICE AND AUTOMOBILE USING THE SAME\*\*\*  
\*\*\* (English)\*\*\*  
\*\*\* Patent Assignee: HITACHI LTD\*\*\*  
\*\*\* Author (Inventor): ONISHI HIROSHI; KATAYAMA HIROSHI; KAYANO MITSUO; \*\*\*  
\*\*\* ISHII JUNICHI\*\*\*  
\*\*\* Priority (No,Kind,Date): JP 92228878 A 19920827\*\*\*

\*\*\* Applic (No,Kind,Date): JP 92228878 A 19920827\*\*\*  
\*\*\* IPC: \* F16H-059/66\*\*\*  
\*\*\* JAPIO Reference No: ; 180 [REDACTED] 000078\*\*\*  
\*\*\* Language of Document: Japanese\*\*\*  
\*\*\* Patent (No,Kind,Date): JP 6147304 A2 19940527\*\*\*  
\*\*\* AUTOMATIC TRANSMISSION CONTROL DEVICE FOR AUTOMOBILE (English)\*\*\*  
\*\*\* Patent Assignee: HITACHI LTD\*\*\*  
\*\*\* Author (Inventor): KITANO KOJI; KURIHARA NOBUO; KAYANO MITSUO;\*\*\*  
\*\*\* KATAYAMA HIROSHI; ONISHI HIROSHI; ISHII JUNICHI; MINOWA TOSHIMICHI;\*\*\*  
\*\*\* HORIUCHI MICHIMASA\*\*\*  
\*\*\* Priority (No,Kind,Date): JP 92324514 A 19921203; JP 92246719 A\*\*\*  
\*\*\* 19920916; JP 91319205 A 19911203\*\*\*  
\*\*\* Applic (No,Kind,Date): JP 92324514 A 19921203\*\*\*  
\*\*\* IPC: \* F16H-061/00; F16H-059-14; F16H-059-36; F16H-059-42; F16H-059-44\*\*\*  
\*\*\* ; F16H-059-48\*\*\*  
\*\*\* Derwent WPI Acc No: \* G 93-189640; G 94-084717\*\*\*  
\*\*\* JAPIO Reference No: \* 180469M000043; 180469M000043\*\*\*  
\*\*\* Language of Document: Japanese\*\*\*  
\*\*\* Patent (No,Kind,Date): JP 11325227 A2 19991126\*\*\*  
\*\*\* AUTOMATIC TRANSMISSION CONTROL DEVICE FOR AUTOMOBILE (English)\*\*\*  
\*\*\* Patent Assignee: HITACHI LTD\*\*\*  
\*\*\* Author (Inventor): KITANO KOJI; KURIHARA NOBUO; KAYANO MITSUO;\*\*\*  
\*\*\* KATAYAMA HIROSHI; ONISHI HIROSHI; ISHII JUNICHI; MINOWA TOSHIMICHI;\*\*\*  
\*\*\* HORIUCHI MICHIMASA\*\*\*  
\*\*\* Priority (No,Kind,Date): JP 9937286 A 19990216; JP 91319205 A\*\*\*  
\*\*\* 19911203; JP 92246719 A 19920916\*\*\*  
\*\*\* Applic (No,Kind,Date): JP 9937286 A 19990216\*\*\*  
\*\*\* IPC: \* F16H-061/02; G01L-003/00; F16H-059-14; F16H-059-48; F16H-059-52\*\*\*  
\*\*\* Derwent WPI Acc No: \* G 93-189640; G 94-084717\*\*\*  
\*\*\* JAPIO Reference No: \* 180469M000043\*\*\*  
\*\*\* Language of Document: Japanese\*\*\*  
\*\*\*\*\*

\*\*\*UNITED STATES OF AMERICA (US)\*\*\*  
\*\*\* Patent (No,Kind,Date): US 5510982 A 19960423\*\*\*  
\*\*\* AUTOMATIC AUTOMOBILE TRANSMISSION WITH VARIABLE SHIFT PATTERN\*\*\*  
\*\*\* CONTROLLED IN RESPONSE TO ESTIMATED RUNNING LOAD (English)\*\*\*  
\*\*\* Patent Assignee: HITACHI LTD (JP)\*\*\*  
\*\*\* Author (Inventor): OHNISHI HIROSHI (JP); KITANO KOUJI (JP); KAYANO\*\*\*  
\*\*\* MITSUO (JP); KURIHARA NOBUO (JP)\*\*\*  
\*\*\* Priority (No,Kind,Date): JP 91319205 A 19911203\*\*\*  
\*\*\* Applic (No,Kind,Date): US 985199 A 19921203\*\*\*  
\*\*\* National Class: \* 364424100; 477120000; 477900000; 395905000\*\*\*  
\*\*\* IPC: \* B60K-017/06\*\*\*  
\*\*\* Derwent WPI Acc No: \* G 93-189640\*\*\*  
\*\*\* JAPIO Reference No: \* 180469M000043\*\*\*  
\*\*\* Language of Document: English\*\*\*  
\*\*\* Patent (No,Kind,Date): US 5925087 A 19990720\*\*\*  
\*\*\* METHOD AND APPARATUS FOR ELIMINATING NOISE IN A SLOPE ESTIMATION\*\*\*  
\*\*\* ARRANGEMENT FOR A MOTOR VEHICLE (English)\*\*\*  
\*\*\* Patent Assignee: HITACHI LTD (JP)\*\*\*  
\*\*\* Author (Inventor): OHNISHI HIROSHI (JP); KATAYAMA HIROSHI (JP);\*\*\*  
\*\*\* KAYANO MITSUO (JP); ISHII JUNICHI (JP); MINOWA TOSHIMICHI (JP);\*\*\*  
\*\*\* HORIUCHI MICHIMASA (JP)\*\*\*  
\*\*\* Priority (No,Kind,Date): JP 92228878 A 19920827; JP 92246719 A\*\*\*  
\*\*\* 19920916\*\*\*  
\*\*\* Applic (No,Kind,Date): US 112373 A 19930827\*\*\*  
\*\*\* National Class: \* 701070000; 701001000; 701076000\*\*\*  
\*\*\* IPC: \* B60K-041/22; H04B-015/06\*\*\*  
\*\*\* Derwent WPI Acc No: \* G 94-084717\*\*\*  
\*\*\* JAPIO Reference No: \* 180325M000078; 180469M000043\*\*\*  
\*\*\* Language of Document: English\*\*\*  
\*\*\*\*\*

\*\*\*UNITED STATES OF AMERICA (US)\*\*\*  
\*\*\* Legal Status (No,Type,Date,Code,Text):\*\*\*  
\*\*\* US 5510982 P 19911203 US AA PRIORITY (PATENT)\*\*\*  
\*\*\* JP 91319205 A 19911203\*\*\*  
\*\*\* US 5510982 P 19921203 US AE APPLICATION DATA (PATENT)\*\*\*  
\*\*\* (APPL. DATA (PATENT))\*\*\*  
\*\*\* US 985199 A 19921203\*\*\*  
\*\*\* US 5510982 P 19930222 US AS02 ASSIGNMENT OF ASSIGNOR'S\*\*\*  
\*\*\* INTEREST\*\*\*  
\*\*\* HITACHI, LTD. 6, KANDA SURUGADAI 4-CHOME\*\*\*  
\*\*\* CHIYODA-KU, TOKYO, JAPAN ; ONISHI, HIROSHI :\*\*\*  
\*\*\* 19930202; KITANO, KOUJI : 19930202; KAYANO,\*\*\*  
\*\*\* MITSUO : 19930202; KURIHARA, MOBUO : 19930202\*\*\*  
\*\*\* US 5510982 P 19960423 US A PATENT\*\*\*  
\*\*\* US 5510982 P 19981006 US RF REISSUE APPLICATION FILED\*\*\*

\*\*\* (REISSUE APPL. FILED) \*\*\*

0423\*\*\*

\*\*\* US 5510982 P 20000 US RF REISSUE APPL. FILED\*\*\*  
(REISSUE APPL. FILED) \*\*\*  
20000204\*\*\*  
\*\*\* US 5925087 P 19920827 US AA PRIORITY (PATENT) \*\*\*  
JP 92228878 A 19920827\*\*\*  
\*\*\* US 5925087 P 19920916 US AA PRIORITY (PATENT) \*\*\*  
JP 92246719 A 19920916\*\*\*  
\*\*\* US 5925087 P 19930827 US AE APPLICATION DATA (PATENT) \*\*\*  
(APPL. DATA (PATENT)) \*\*\*  
US 112373 A 19930827\*\*\*  
\*\*\* US 5925087 P 19990720 US A PATENT\*\*\*  
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CITES 1 CLE 3 HOTTOP 3 INCORP 4 P-PROP 5 CMPGN 21  
LEGIS 1 FORMS 3 INSOLV 5 VERDCT 5 WORLD 21

<-----Area of Law-----<----- Medical >  
ADVSOR 6 CONLAW 8 ENERGY 9 HEALTH 11 LABOR 11 PUBCON 12 TELCOM 10 GENMED 15  
ACCTG 8 CORP 9 ENVIRN 9 HR 10 LEXPAT 12 PUBHW 13 TORTS 14 EMBASE 15  
ADMIN 8 COPYRT 8 ESTATE 9 IMMIG 11 M&A 12 REALTY 13 TRADE 14 MEDLNE 15  
ADMRTY 8 CRIME 9 ETHICS 10 INSURE 11 MILTRY 12 STSEC 13 TRANS 14 <-Helps->  
ADR 8 CYBRLW 9 FAMILY 10 INTLAW 11 PATENT 12 STTAX 13 TRDMRK 14 EASY 6  
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PTOMNI 1 FEDCTS, PTO, ITC, ALLREG REEXAM & REISS  
, CASES 1 FEDCTS, PTO & ITC ALLPAT 4 Comb. ALL & INTPAT  
, FEDCTS 2 Patent cases from Fed. Cts. <-----U.S. PATENTS----->  
CCPA 2 Ct Customs & Patent Appeals UTIL 4 Full Text Patents from 1971\*  
CAFC 2 Patent cases from Fed. Cir. DESIGN 4 Full Text Patents from 1976  
PTO 2 PATAPP & COMM R PLANT 4 Full Text Patents from 1976  
<-----SECONDARY SOURCES----->  
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IPLR 5 Intell Prop Law Rev Articles News, Curnws

PATNO=5510982

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To MODIFY your search request, press the M key (for MODFY) and then the TRANSMIT key.

LEVEL 1 - 1 OF 1 PATENT

<5,510,982>

<<2>> GET 1st DRAWING SHEET OF 20

Apr. 23, 1996

Automatic automobile transmission with variable shift pattern controlled in response to estimated running load

REISSUE: Reissue Application filed Feb. 4, 2000 (O.G. Sep. 12, 2000) Ex. Gp.: 2786; Re. S.N. 09/498,856

Reissue Application filed Apr. 23, 1998 (O.G. Oct. 6, 1998) Ex. Gp.: 2304;

Re. S.N. 09/064,765

CORE TERMS: torque, estimated, a [REDACTED] mobile, load, acceleration, es [REDACTED] tation, engine, running, gear, revolution...

>>>

5510982 OR 5,510,982

Your search request has found no CASES.

5510982 OR 5,510,982

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5510982 OR 5,510,982

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